

M 4.1, Puerto Rico region

Origin Time: 2020-12-24 18:12:01 UTC (Thu 14:12:01 local)
Location: 17.9333° N 66.8473° W Depth: 14.0 km

Created: 2 hours, 3 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

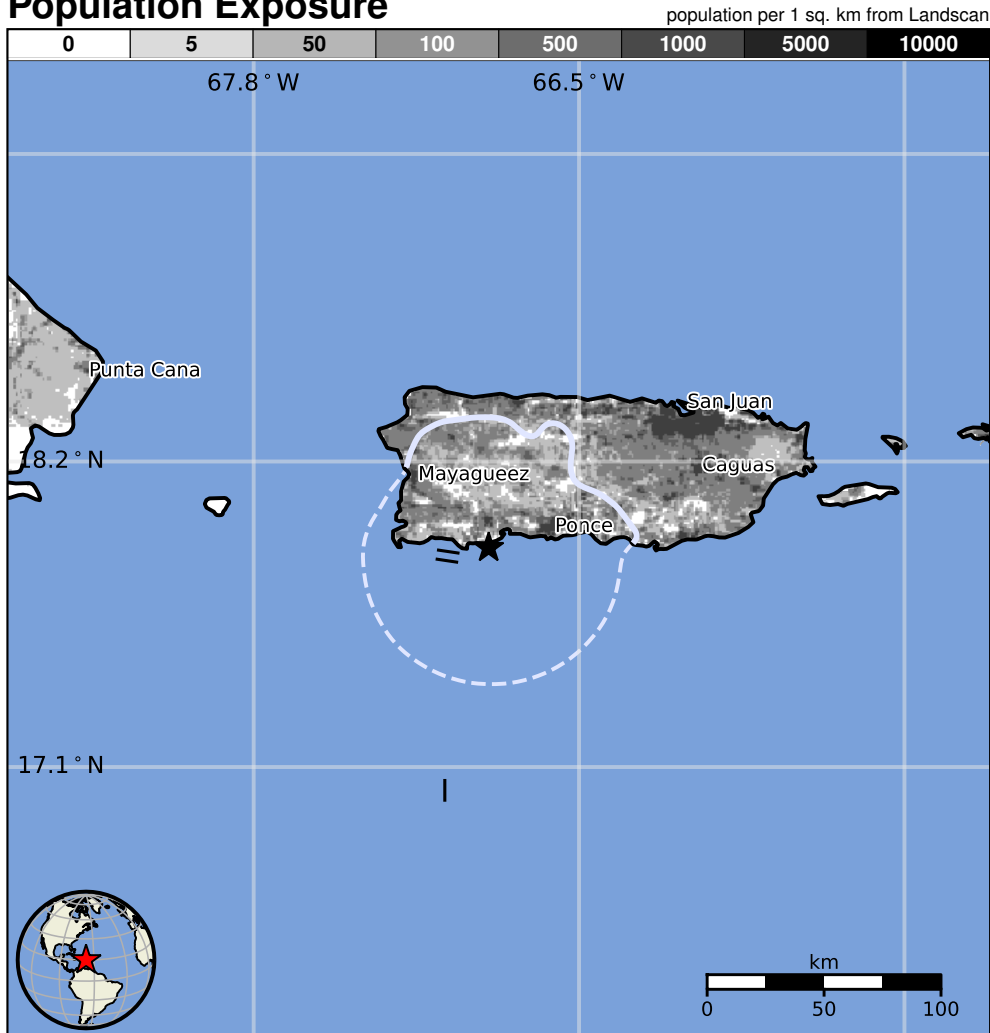


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | 2,555k | 867k | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1979-03-23 | 235 | 6.6 | VI(605k) | 0 |
| 1980-11-12 | 335 | 5.9 | VII(87k) | — |
| 1984-06-24 | 266 | 6.7 | VII(326k) | 5 |

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-----------------|-------------|
| II | Fuig | 1k |
| II | Guanica | 9k |
| II | Indios | 2k |
| II | Maria Antonia | 1k |
| II | Guayanilla | 5k |
| II | Magas Arriba | 1k |
| II | Ponce | 153k |
| I | Bayamon | 203k |
| I | Caguas | 87k |
| I | San Juan | 418k |
| I | Carolina | 170k |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/pr2020359056#pager>

bold cities appear on map.

(k = x1000)

Event ID: pr2020359056